

Title (en)
METHOD AND APPARATUS FOR FORMING LENS-ENDED OPTICAL FIBRES

Publication
EP 0278213 A3 19880907 (EN)

Application
EP 88100052 A 19880105

Priority
US 288487 A 19870113

Abstract (en)
[origin: EP0278213A2] A system is described for forming a lens (12) at the end of an optical fiber (14) which extends through a hole in a contact (20), so the tip of the lens lies at a desired lens position located a predetermined distance rearward of the tip of the contact. The fiber is fixed to the contact at a position wherein the tip of the fiber lies forward of the desired lens position, at about the tip of the contact. The contact is positioned vertically, with the tip of the fiber pointing upwardly, and an arc (36) is passed across the end portion of the fiber, to initially heat and bulge out a location on the fiber spaced rearward of the tip. As the fiber is heated, the tip portion falls into the bulging portion, while the bulging portion moves down, with the heating continued long enough so that the tip of the molten ball of glass lies at the desired lens position.

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G02B 6/32

IPC 8 full level
G02B 6/02 (2006.01); **G02B 6/255** (2006.01); **G02B 6/26** (2006.01); **G02B 6/32** (2006.01)

CPC (source: EP US)
G02B 6/2552 (2013.01 - EP US); **G02B 6/262** (2013.01 - EP US); **G02B 6/32** (2013.01 - EP US)

Citation (search report)
• [X] EP 0022374 A1 19810114 - POST OFFICE [GB]
• [A] GB 2020446 A 19791114 - ITT
• [A] PATENT ABSTRACTS OF JAPAN, vol. 7, no. 206 (P-222)[1351], 10th September 1983; & JP - A - 58 102 911 (FUJITSU K.K.) 18-06-1983

Cited by
EP0330728A3; EP0487633A4

Designated contracting state (EPC)
CH DE FR GB IT LI NL SE

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EP 0278213 A2 19880817; EP 0278213 A3 19880907; JP H01126609 A 19890518; US 4755203 A 19880705

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